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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/718,526	11/21/2000	Gary W. Tripp	1770-13-3	2538

996 7590 03/13/2003

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EXAMINER

VU, VIET DUY

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 03/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/718,526

Applicant(s)

Tripp et al

Examiner

Viet Vu

Art Unit

2154



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Feb 6, 2003
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 2, 4-19, and 21-45 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-19, and 21-45 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 8 6) ☐ Other:

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DETAILED ACTION

Art Rejections:

1. The text of 35 U.S.C. § 103(a) cited in the previous office action is hereby incorporated by reference.
2. Claims 1-2, 4-19 and 21-45 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Choy et al, US pat. No. 5,551,027.

Choy discloses a multi-tiered indexing system for parallel processing comprising:

- a) a self-contained key-ordered list of data objects (sorted global index keys, fig. 4) each object has an associated type (record field) and a value and contains a pointer to a database (see col 10, lines 25-57),
- b) a plurality of memories in a plurality of independently operated servers (fig. 3), each memory containing a partition of a database (see col 9, line 58 - col 10, line 24),
- c) a query processor (not shown) operating the global index table for receiving a query and, based on the content of the query, directing the query to one or more servers for processing in parallel (see col 11, lines 6-20) and combining the results (see col 11, lines 49-50).

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It is noted that Choy's invention allows any record fields in the database to be used as global and local index keys.

In the preferred embodiment, Choy does not teach partitioning the database into multiple contiguous subsets of the global index keys, e.g., partitioning by names. However, such partitions are seen to be well known in the art where each segment contains a specified range of index keys (see col 2, lines 19-34).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize any database partitions in Choy (including partitioning by names) because such partitions would have enabled more efficient operations on particular data application (see col 2, lines 30-34).

Per claims 7 and 28, Choy also teaches updating indexes on the databases (see col 12, lines 49-57).

It is also noted that Choy's teachings are seen meeting limitations recited in all other dependent claims.

Response to Amendment:

3. Applicant's arguments filed on 2/6/03 are moot in view of new ground of rejection set forth above.

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Conclusion:

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Vu whose telephone number is (703) 305-9597. The examiner can normally be reached on Monday through Thursday from 8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An, can be reached on (703) 305-9678.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-9600.



VIET D. VU
PRIMARY EXAMINER

Art Unit 2154
3/6/03